FIG. 1

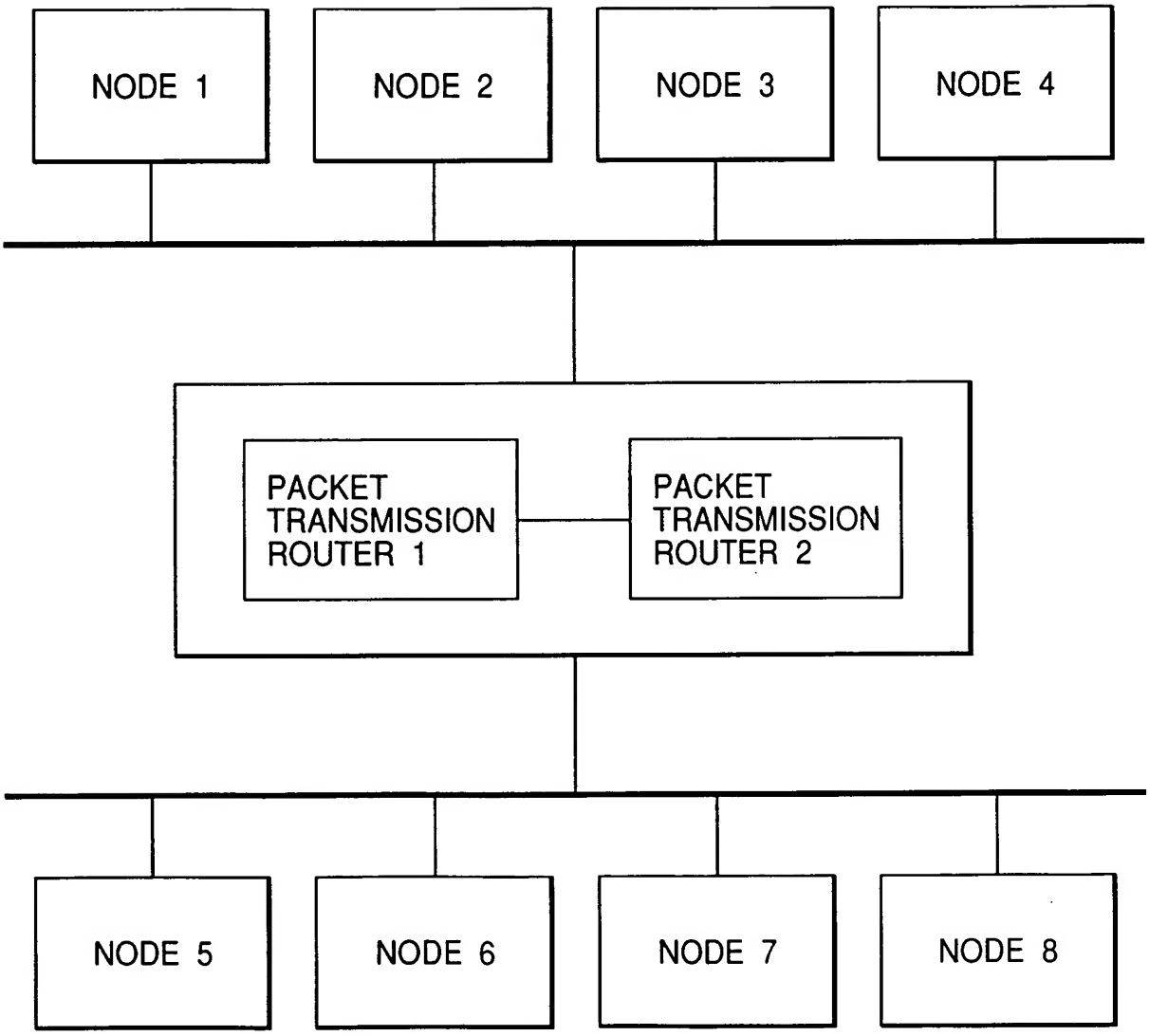
NODE 1
NODE 2
NODE 3
NODE 4
PACKET TRANSMISSION ROUTER 1
PACKET TRANSMISSION ROUTER 2
NODE 5
NODE 6
NODE 7
NODE 8

FIG. 2

VERSION	TYPE	VRRP IDENTIFIER (VRID)	PRIORITY	COUNT IP ADDRESS
AUTHENTICATION TYPE		ADVERTISEMENT INTERVAL	CHECKSUM	
IP ADDRESS (1)				
IP ADDRESS (2)				
AUTHENTICATION DATA (1)				
AUTHENTICATION DATA (2)				

FIG. 3

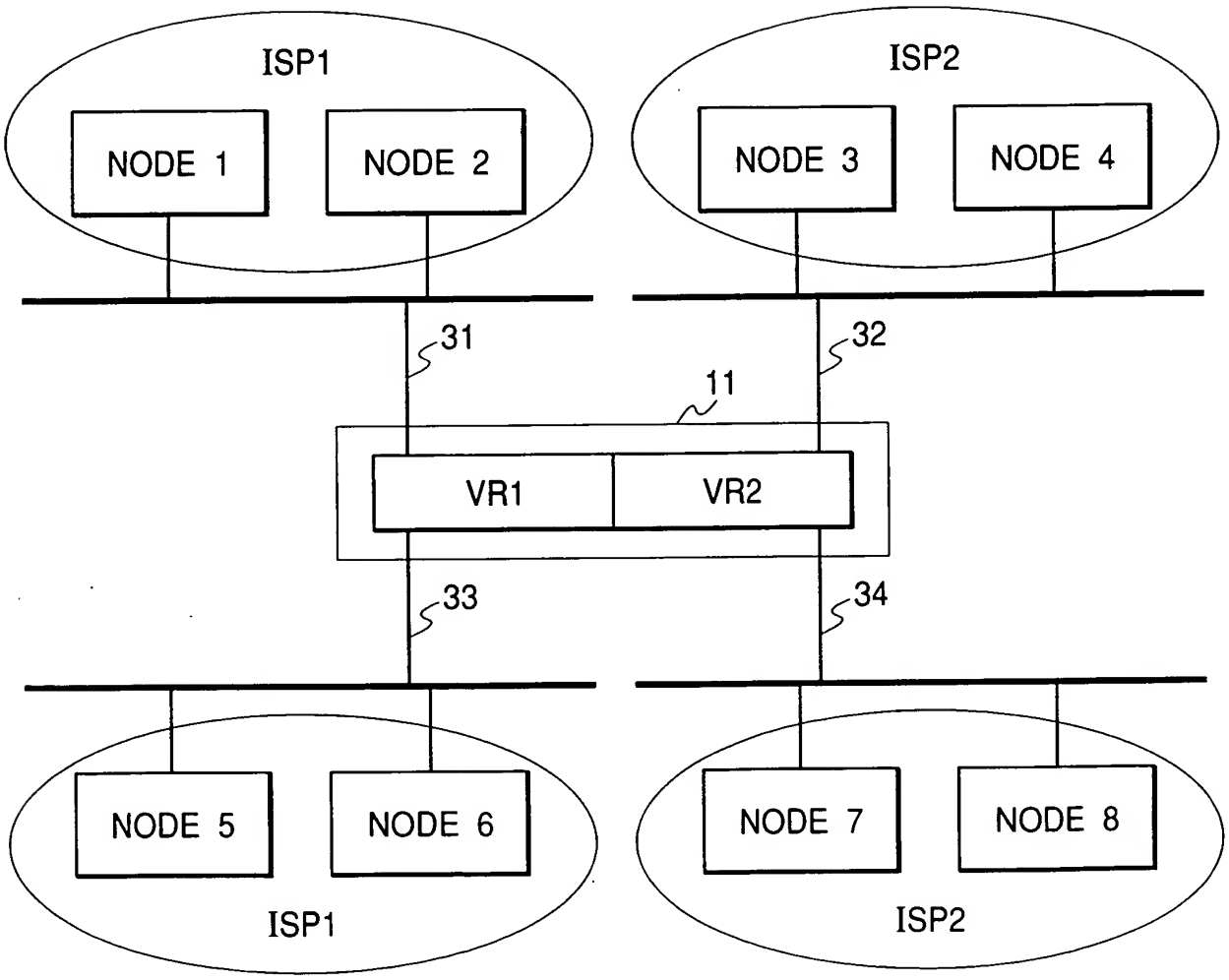
ISP1
NODE 1
NODE 2
ISP2
NODE 3
NODE 4
31
32
11
VR1
VR2
33
34
NODE 5
NODE 6
NODE 7
NODE 8
ISP1
ISP2

FIG. 4

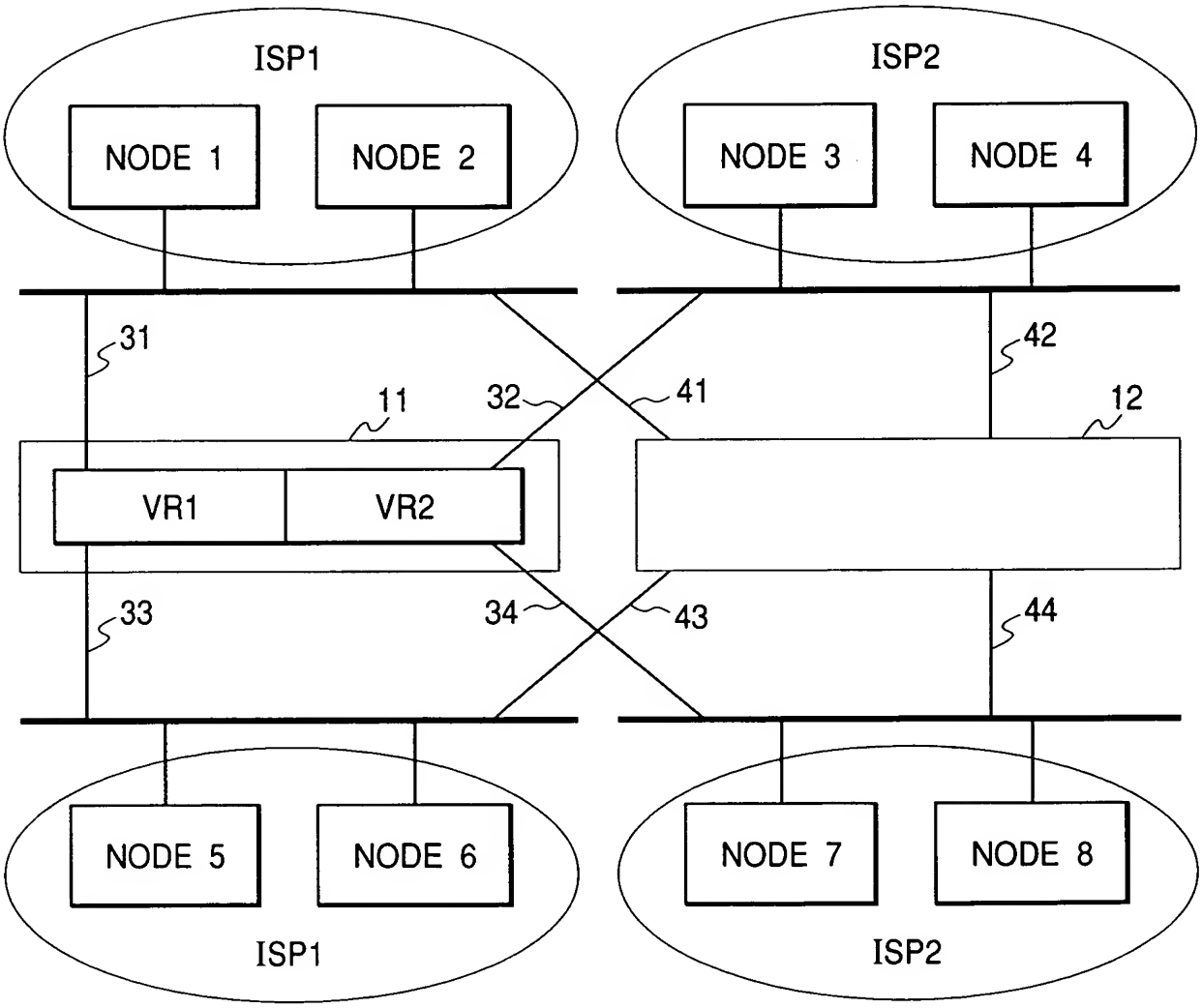
ISP1
ISP2
NODE 1
NODE 2
NODE 3
NODE 4
31
42
11
32
41
12
VR1
VR2
33
34
43
44
NODE 5
NODE 6
NODE 7
NODE 8
ISP1
ISP2

FIG. 5

DESTINATION NODE IP ADDRESS	SENDING INTERFACE
NODE 1 IP ADDRESS	INTERFACE 41
NODE 3 IP ADDRESS	INTERFACE 42
NODE 5 IP ADDRESS	INTERFACE 43
NODE 7 IP ADDRESS	INTERFACE 44

ASSIGNED TO ISP1

ASSIGNED TO ISP2

FIG. 6

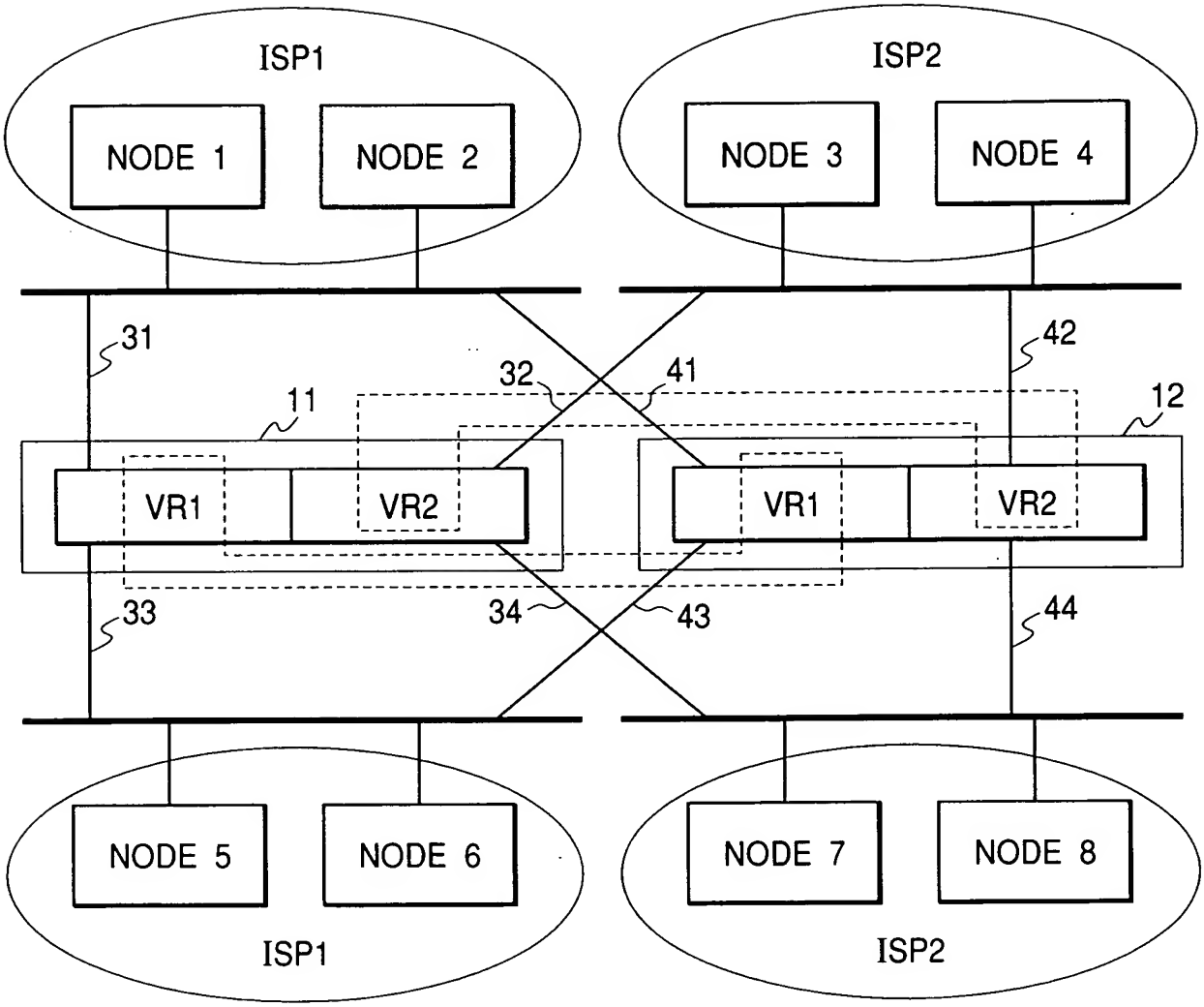
ISP1
ISP2
NODE 1
NODE 2
NODE 3
NODE 4
31
42
32
41
11
12
VR1
VR2
VR1
VR2
33
34
43
44
NODE 5
NODE 6
NODE 7
NODE 8
ISP1
ISP2

FIG. 7

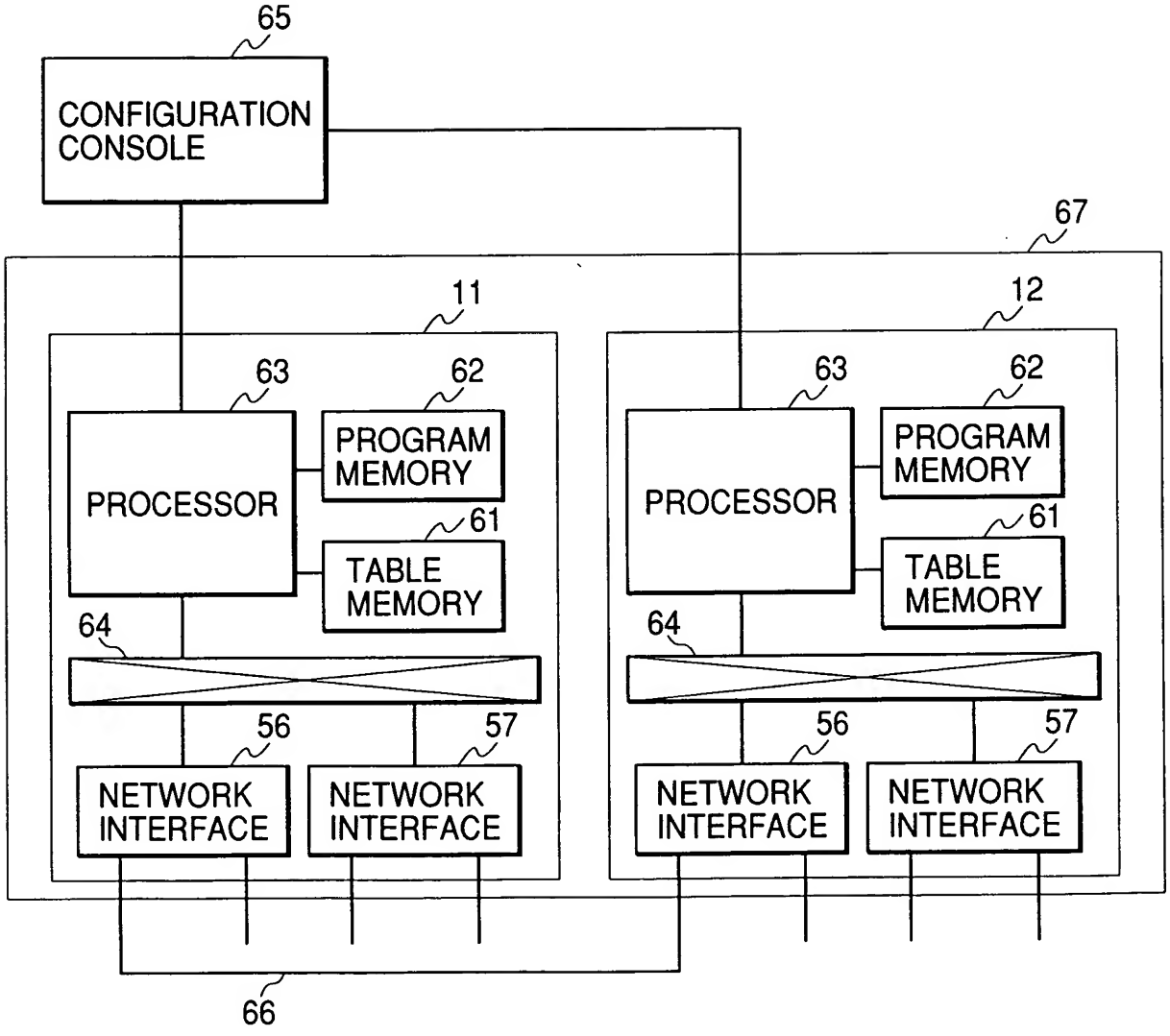
65
CONFIGURATION CONSOLE
67
11
12
63
62
PROCESSOR
PROGRAM MEMORY
61
TABLE MEMORY
64
56
57
NETWORK INTERFACE
NETWORK INTERFACE
66

FIG. 8

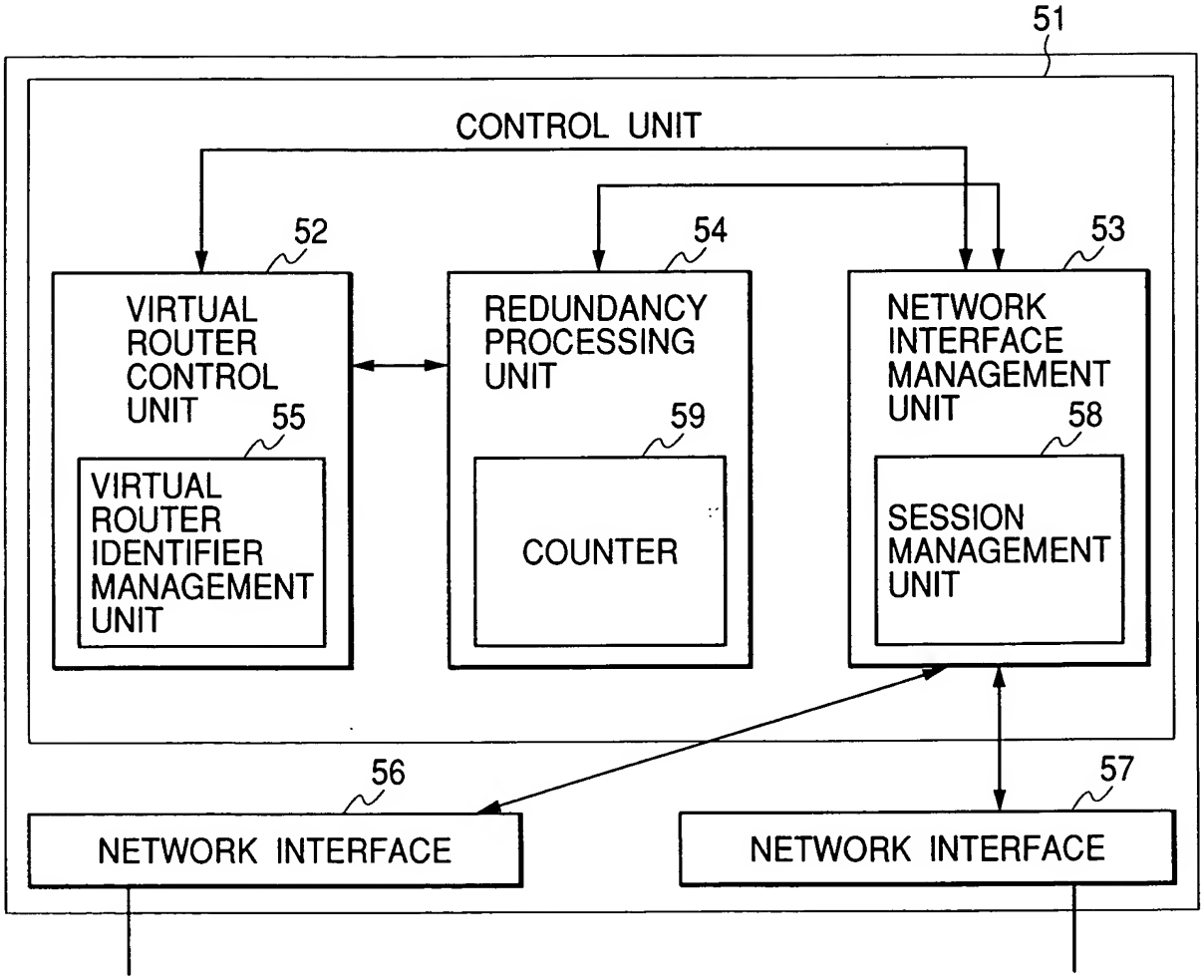
51
CONTROL UNIT
52
54
53
VIRTUAL ROUTER CONTROL UNIT
55
VIRTUAL ROUTER IDENTIFIER MANAGEMENT UNIT
REDUNDANCY PROCESSING UNIT
59
COUNTER
NETWORK INTERFACE MANAGEMENT UNIT
58
SESSION MANAGEMENT UNIT
56
57
NETWORK INTERFACE
NETWORK INTERFACE

FIG. 9

VERSION	VR CONFIGURATION FLAG	VIRTUAL ROUTER IDENTIFIER	PRIORITY	COUNT IP ADDRESS
AUTHENTICATION TYPE		ADVERTISEMENT INTERVAL	CHECKSUM	
IP ADDRESS (1)				
IP ADDRESS (2)				
AUTHENTICATION DATA (1)				
AUTHENTICATION DATA (2)				

FIG. 10

DATA LINK HEADER	IP HEADER	VRRP PACKET	CRC

FIG. 11

PREAMBLE	DESTINATION MAC ADDRESS	SOURCE MAC ADDRESS	TYPE

FIG. 12

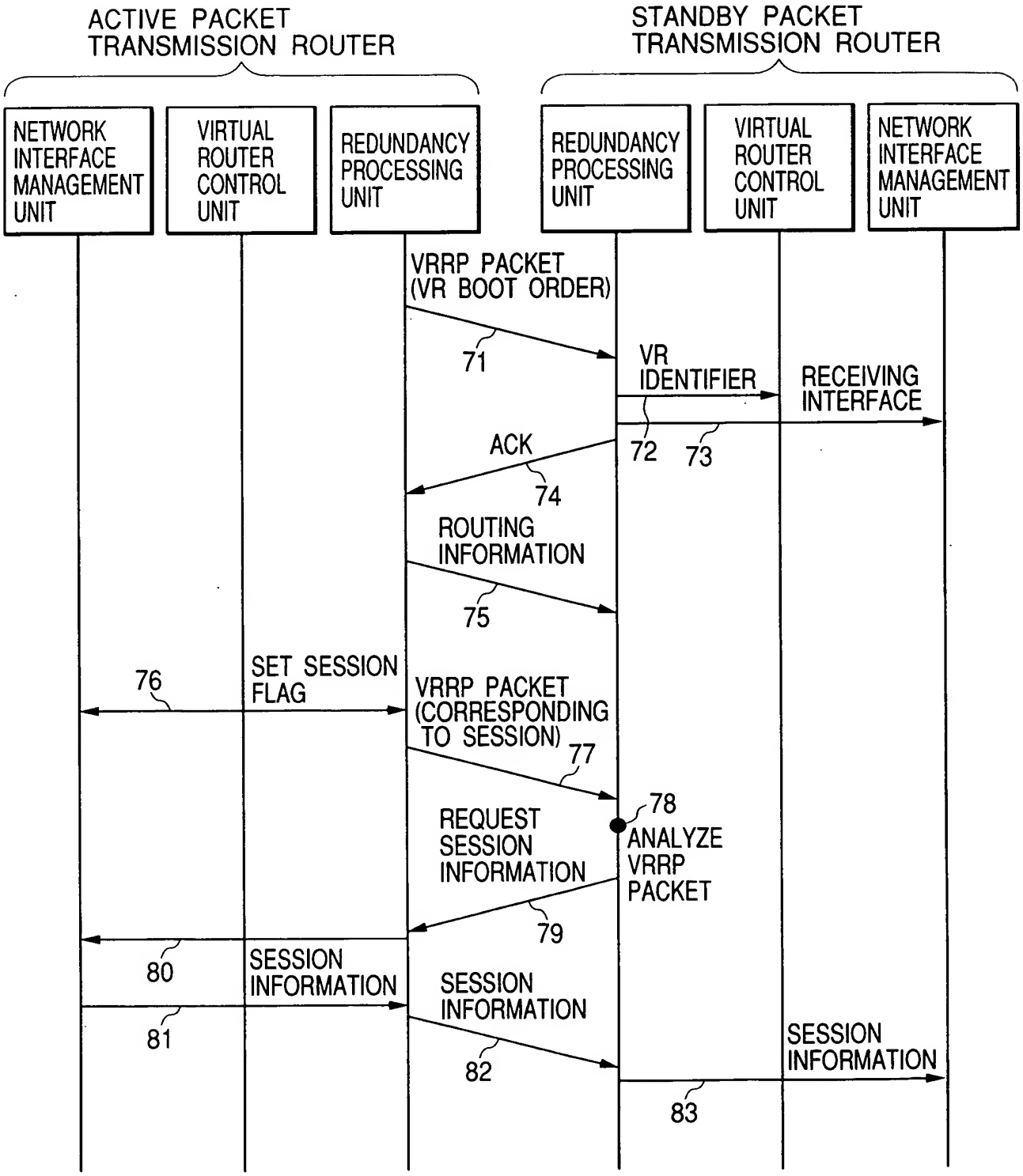
ACTIVE PACKET TRANSMISSION ROUTER
STANDBY PACKET TRANSMISSION ROUTER
NETWORK INTERFACE MANAGEMENT UNIT
VIRTUAL ROUTER CONTROL UNIT
REDUNDANCY PROCESSING UNIT
REDUNDANCY PROCESSING UNIT
VIRTUAL ROUTER CONTROL UNIT
NETWORK INTERFACE MANAGEMENT UNIT
VRRP PACKET (VR BOOT ORDER)
71
VR IDENTIFIER
RECEIVING INTERFACE
72
73
ACK
74
ROUTING INFORMATION
75
76
SET SESSION FLAG
VRRP PACKET (CORRESPONDING TO SESSION)
77
78
REQUEST SESSION INFORMATION
ANALYZE VRRP PACKET
79
80
SESSION INFORMATION
SESSION INFORMATION
81
82
SESSION INFORMATION
83

FIG. 13

DESTINATION NODE IP ADDRESS	SENDING INTERFACE
NODE 1 IP ADDRESS	INTERFACE 41
NODE 2 IP ADDRESS	INTERFACE 41
NODE 5 IP ADDRESS	INTERFACE 43
NODE 6 IP ADDRESS	INTERFACE 43

FIG. 14

DESTINATION NODE IP ADDRESS	SENDING INTERFACE
NODE 3 IP ADDRESS	INTERFACE 42
NODE 4 IP ADDRESS	INTERFACE 42
NODE 7 IP ADDRESS	INTERFACE 44
NODE 8 IP ADDRESS	INTERFACE 44

FIG. 15

NODE IDENTIFIER	SESSION IDENTIFIER
NODE 1 @abc.com	101
NODE 2 @abc.com	102
NODE 5 @abc.com	105
NODE 6 @abc.com	106

FIG. 16

NODE IDENTIFIER	SESSION IDENTIFIER
NODE 3 @xyz.com	203
NODE 4 @xyz.com	204
NODE 7 @xyz.com	205
NODE 8 @xyz.com	206